FIG. 1

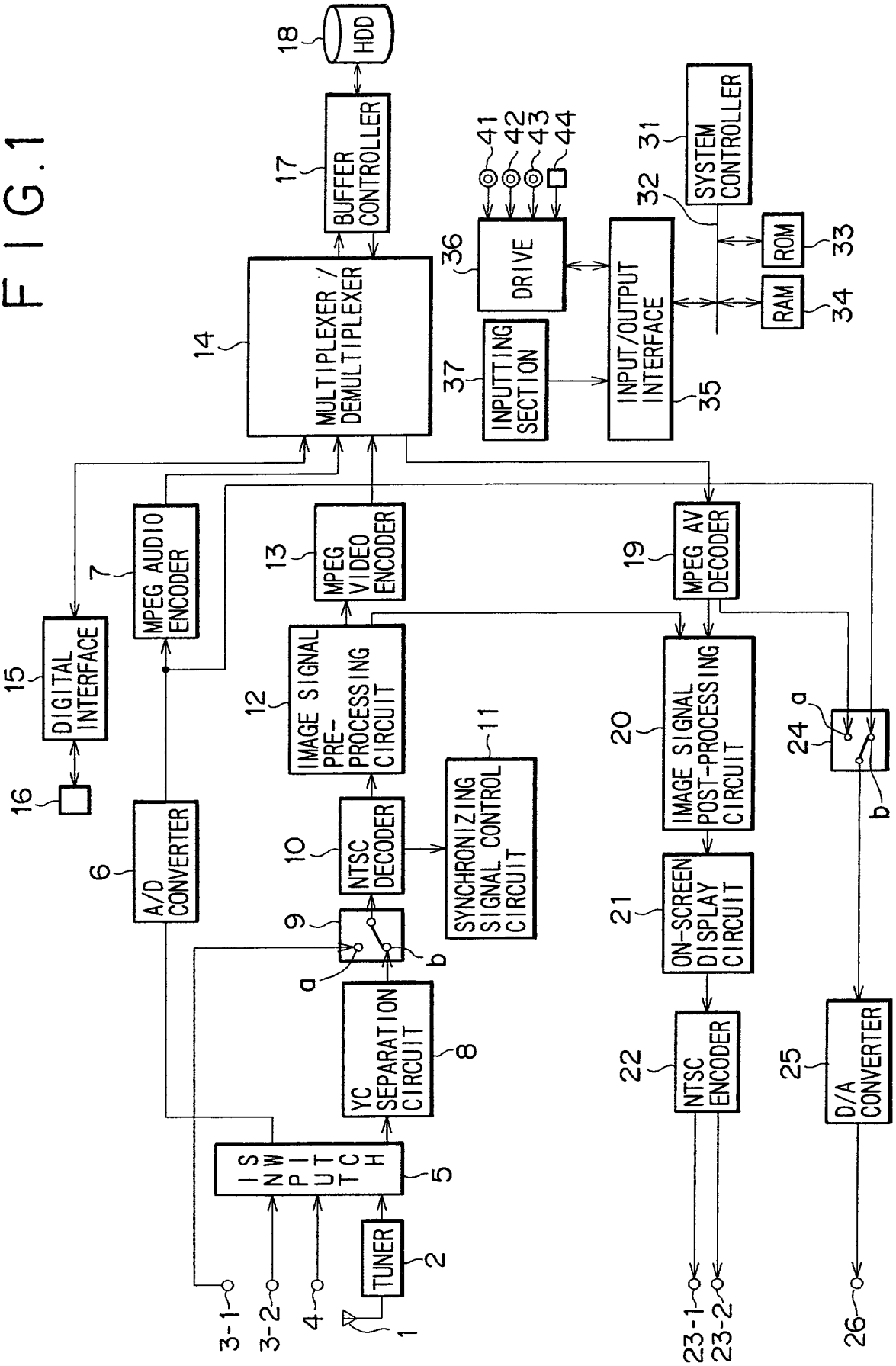

1
2
TUNER
3-1
3-2
4
5
SWITCH INPUT
6
A/D CONVERTER
7
MPEG AUDIO ENCODER
8
YC SEPARATION CIRCUIT
9
a
b
10
NTSC DECODER
11
SYNCHRONIZING SIGNAL CONTROL CIRCUIT
12
IMAGE SIGNAL PRE-PROCESSING CIRCUIT
13
MPEG VIDEO ENCODER
14
MULTIPLEXER / DEMULTIPLEXER
15
DIGITAL INTERFACE
16
17
BUFFER CONTROLLER
18
HDD
19
MPEG AV DECODER
20
IMAGE SIGNAL POST-PROCESSING CIRCUIT
21
ON-SCREEN DISPLAY CIRCUIT
22
NTSC ENCODER
23-1
23-2
24
a
b
25
D/A CONVERTER
26
31
SYSTEM CONTROLLER
32
33
ROM
34
RAM
35
INPUT/OUTPUT INTERFACE
36
DRIVE
37
INPUTTING SECTION
41
42
43
44

FIG.2

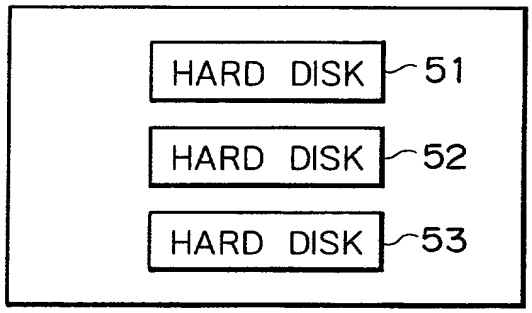


FIG.3

n	I(n)	P(n)
:	:	:
100	3	1500
101	3	1517
102	3	1530
103	3	1535
104	3	1540
:	:	:

FIG.4

n	A(n)
:	:
100	100000
101	100120
102	100200
103	100250
104	100330
:	:

FIG.5

n	D(k)
:	:
101	11
205	9
392	8
:	:

FIG. 6

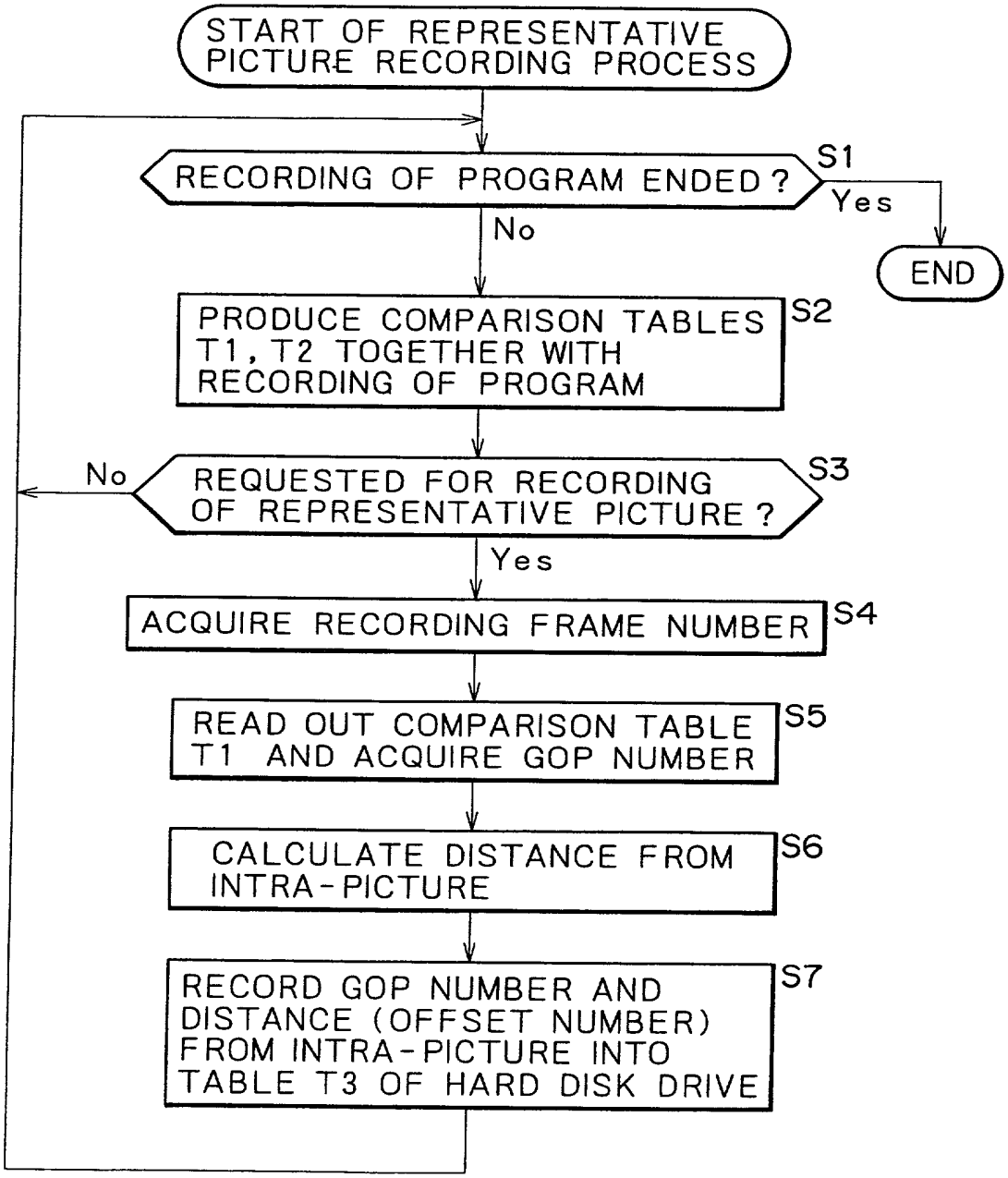

START OF REPRESENTATIVE PICTURE RECORDING PROCESS
RECORDING OF PROGRAM ENDED ?
S1
Yes
END
No
PRODUCE COMPARISON TABLES T1, T2 TOGETHER WITH RECORDING OF PROGRAM
S2
No
REQUESTED FOR RECORDING OF REPRESENTATIVE PICTURE ?
S3
Yes
ACQUIRE RECORDING FRAME NUMBER
S4
READ OUT COMPARISON TABLE T1 AND ACQUIRE GOP NUMBER
S5
CALCULATE DISTANCE FROM INTRA-PICTURE
S6
RECORD GOP NUMBER AND DISTANCE (OFFSET NUMBER) FROM INTRA-PICTURE INTO TABLE T3 OF HARD DISK DRIVE
S7

FIG. 7

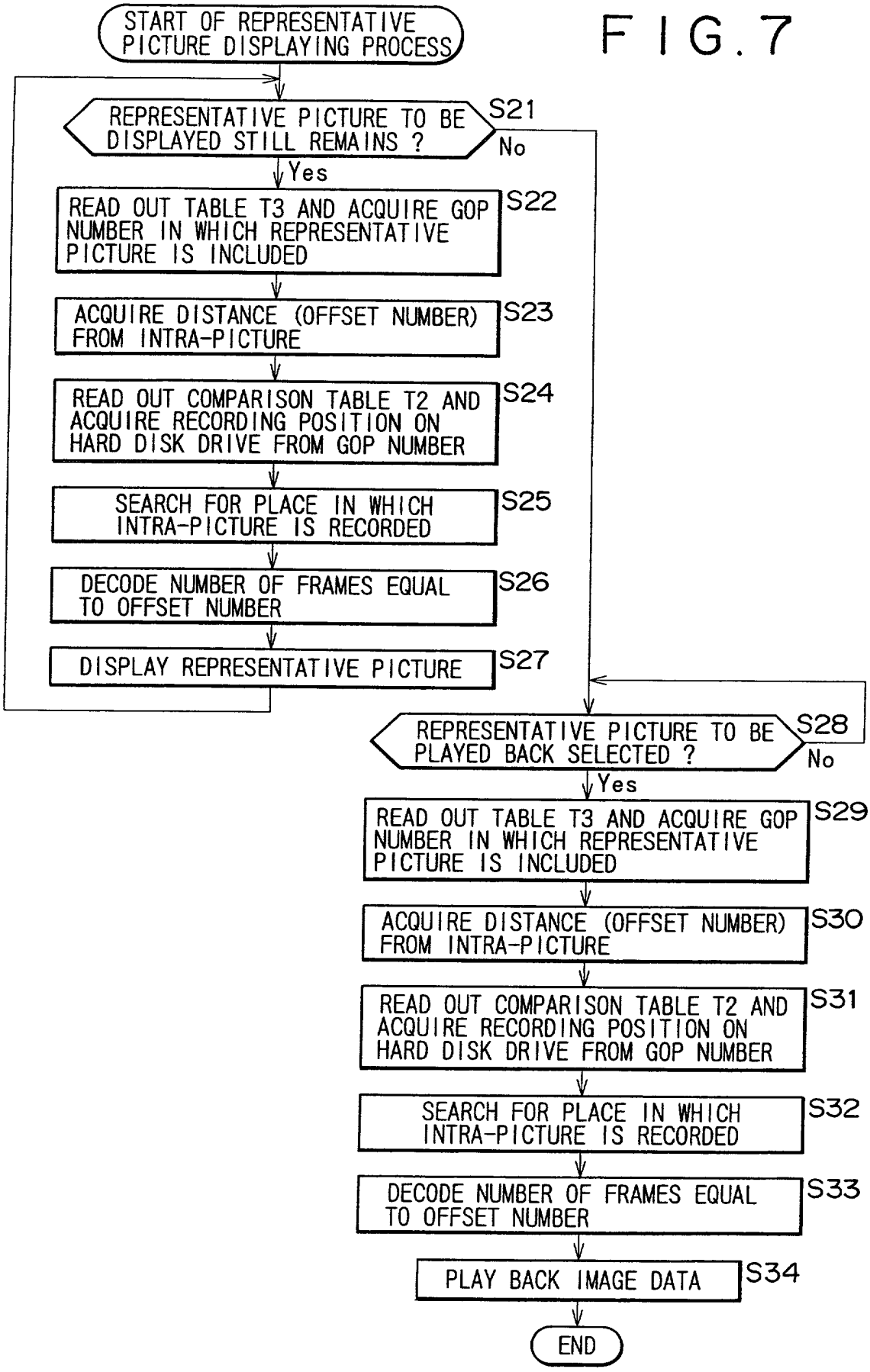

START OF REPRESENTATIVE PICTURE DISPLAYING PROCESS
REPRESENTATIVE PICTURE TO BE DISPLAYED STILL REMAINS ?
S21
No
Yes
READ OUT TABLE T3 AND ACQUIRE GOP NUMBER IN WHICH REPRESENTATIVE PICTURE IS INCLUDED
S22
ACQUIRE DISTANCE (OFFSET NUMBER) FROM INTRA-PICTURE
S23
READ OUT COMPARISON TABLE T2 AND ACQUIRE RECORDING POSITION ON HARD DISK DRIVE FROM GOP NUMBER
S24
SEARCH FOR PLACE IN WHICH INTRA-PICTURE IS RECORDED
S25
DECODE NUMBER OF FRAMES EQUAL TO OFFSET NUMBER
S26
DISPLAY REPRESENTATIVE PICTURE
S27
REPRESENTATIVE PICTURE TO BE PLAYED BACK SELECTED ?
S28
No
Yes
READ OUT TABLE T3 AND ACQUIRE GOP NUMBER IN WHICH REPRESENTATIVE PICTURE IS INCLUDED
S29
ACQUIRE DISTANCE (OFFSET NUMBER) FROM INTRA-PICTURE
S30
READ OUT COMPARISON TABLE T2 AND ACQUIRE RECORDING POSITION ON HARD DISK DRIVE FROM GOP NUMBER
S31
SEARCH FOR PLACE IN WHICH INTRA-PICTURE IS RECORDED
S32
DECODE NUMBER OF FRAMES EQUAL TO OFFSET NUMBER
S33
PLAY BACK IMAGE DATA
S34
END

FIG.8

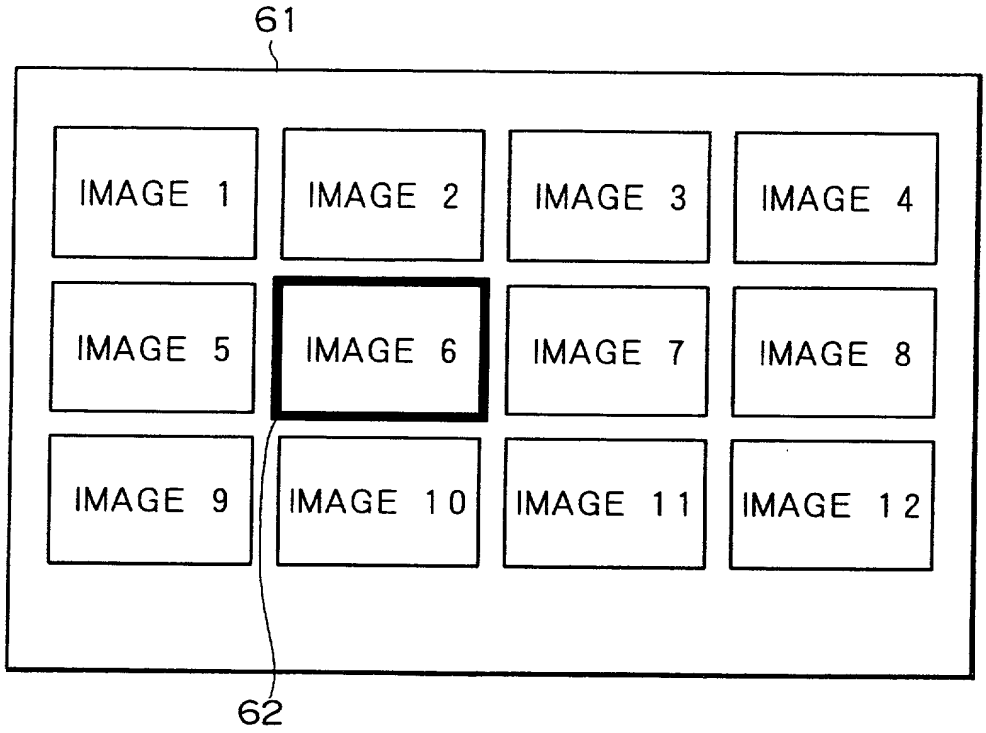
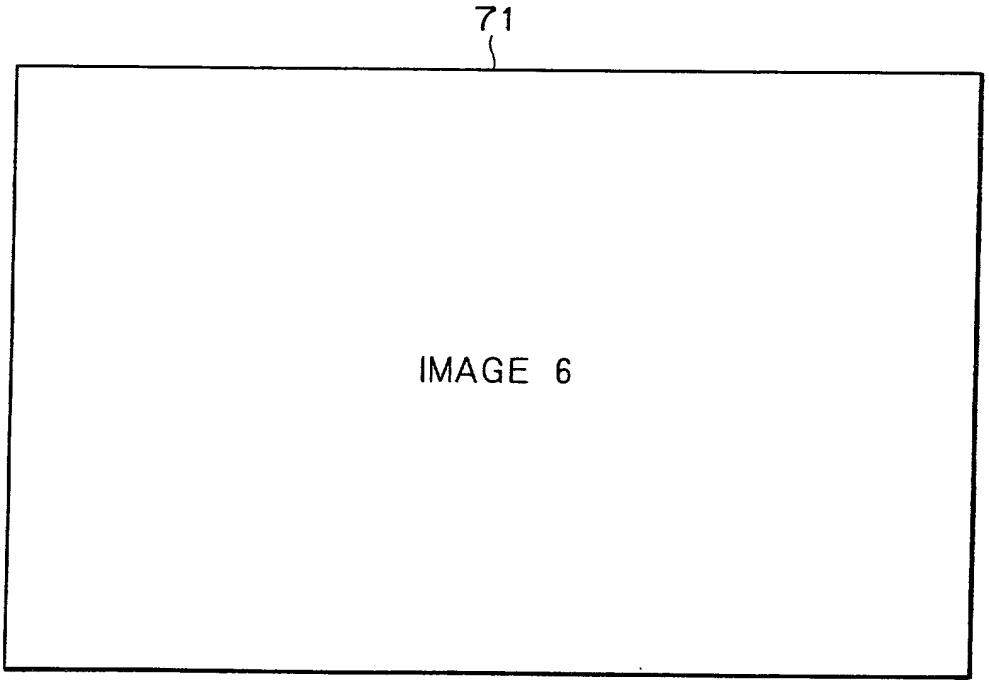

61
IMAGE 1
IMAGE 2
IMAGE 3
IMAGE 4
IMAGE 5
IMAGE 6
IMAGE 7
IMAGE 8
IMAGE 9
IMAGE 10
IMAGE 11
IMAGE 12
62

FIG.9


71
IMAGE 6